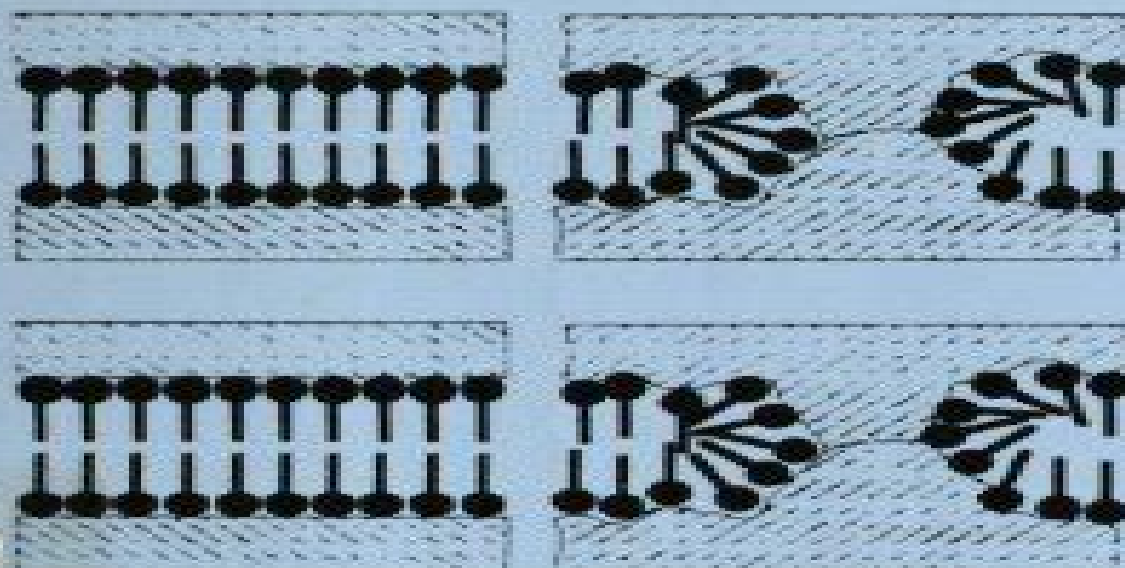


# SURFACES, INTERFACES, AND COLLOIDS

Principles and Applications

Drew Myers



# Surfaces Interfaces Colloids Principles Applications

**Xuanyao Huang**



## **Surfaces Interfaces Colloids Principles Applications:**

Surfaces, Interfaces, and Colloids Drew Myers, 1999-05-24 From the reviews of the First Edition The book has admirably met its stated goal The whole gamut of surface and colloid science has been presented in a comprehensive manner without any undue oversimplification The author should be congratulated for his clarity Advanced Materials Now in its second edition this work remains the single most useful introduction available to the complex area of surface and colloids science Industry expert Drew Myers walks readers through concepts theories and applications keeping the mathematics to a minimum and presenting real world case studies to illustrate key technological and biological processes He substantially reorganizes and updates the material to reflect the current state of knowledge in the field offering new chapters on absorption and biological systems in addition to the important areas of colloid stability emulsions and foams monolayer films surfactants and wetting This revision also boasts an improved index more than 200 new line drawings general and specific chapter bibliographies and end of chapter problems Geared to scientists technologists and students dealing with colloidal and surface systems and their numerous industrial applications the book imparts an understanding of the fundamental aspects of surfaces interfaces and colloids which is essential for effective solutions in diverse areas of chemistry physics biology medicine engineering and material sciences Introduction to Applied Colloid and Surface Chemistry Georgios M. Kontogeorgis, Soren Kiil, 2016-05-16

Colloid and Surface Chemistry is a subject of immense importance and implications both to our everyday life and numerous industrial sectors ranging from coatings and materials to medicine and biotechnology How do detergents really clean Why can't we just use water Why is milk milky Why do we use eggs so often for making sauces Can we deliver drugs in better and controlled ways Coating industries wish to manufacture improved coatings e.g. for providing corrosion resistance which are also environmentally friendly i.e. less based on organic solvents and if possible exclusively on water Food companies want to develop healthy tasty but also long lasting food products which appeal to the environmental authorities and the consumer Detergent and enzyme companies are working to develop improved formulations which clean more persistent stains at lower temperatures and amounts to the benefit of both the environment and our pocket Cosmetics is also big business Creams lotions and other personal care products are really just complex emulsions All of the above can be explained by the principles and methods of colloid and surface chemistry A course on this topic is truly valuable to chemists chemical engineers biologists material and food scientists and many more An Introduction to Interfaces & Colloids John C. Berg, 2010 Offers an introduction to the topics in interfacial phenomena colloid science or nanoscience Designed as a pedagogical tool this book recognizes the cross disciplinary nature of the subject It features descriptions of experiments and contains figures and illustrations that enhance the understanding of concepts Microbial Biosorption of Metals Pavel Kotrba, Martina Mackova, Tomas Macek, 2011-01-13 Heavy metals always pose serious ecological risks when released into the environment due to their elemental non degradable nature regardless of their chemical form This calls for the development of efficient and

low cost effluent treatment and metal recuperation technologies for contaminated waste water not only because regulatory limits need to be met but also because the waste itself can be a resource for certain precious metals Biosorption is a general property of living and dead biomass to rapidly bind and abiotically concentrate inorganic or organic compounds from even very diluted aqueous solutions As a specific term biosorption is a method that utilizes materials of biological origin biosorbents formulated from non living biomass for the removal of target substances from aqueous solutions Recent research on biosorption provides a solid understanding of the mechanism underlying microbial biosorption of heavy metals and related elements This book gathers review articles analyzing current views on the mechanism and bio chemistry of biosorption the performance of bacterial fungal and algal biomass and the practical aspects of biosorbent preparation and engineering It also reviews the physico chemical evaluations of biosorbents and modelling of the process as well as the importance of biosorption during heavy metal removal using living cells It is a reference work for scientists environmental safety engineers and R D specialists who wish to further promote biosorption research and use the accumulated knowledge to develop and build industrial applications of biosorption in heavy metal separation technologies

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